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REMARKS

Applicants thank the Examiner for the very thorough consideration given the present

application.

Claims 1, 3-5, 8, 16-36 are now present in this application. Claims 1, 21, 27 and 32 are

independent. Amendments have been made to the specification. Claims 21-36 have been added,

and claims 1, 17, 19 and 20 have been amended. No new matter is involved. The amendments

to the specification and claim 1, and the new claims, are fully supported by Applicants' originally

filed disclosure.

Reconsideration of this application, as amended, is respectfully requested.

Personal Interview

Applicants acknowledge with appreciation the courtesies extended by Examiner

Riggleman to Mr. Robert J. Webster, Reg. No. 46,472, their below-named representative, during

the personal interview conducted on January 15, 2008. During the interview, Applicants'

representative presented arguments in support of Applicants' contention that Applicants' claims

comply with the written description requirement of 35 USC § 112, first paragraph, and that the

claimed invention is based on a disclosure that enables one of ordinary skill in the art to make

and use the same. Examiner Riggleman suggested incorporating the number of poles used to

differentiate the high speed and low speed ranges. Applicants also discussed additional proposed

claim amendments with Examiner Riggleman on January 16 and 17, 2008, and the claims have

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been amended in accordance with those discussions.

Objection to the Drawing

The Examiner has objected to the drawing for failure to comply with 37 CFR § 1.84(p)(5)

in reference numeral 14, shown in Fig. 1 is not described in the specification. In order to

overcome this objection, Applicants are amending the specification to describe that element 14,

which is shown in Fig. 1, is a laundry lifter. No new matter in involved.

Reconsideration and withdrawal of this objection are respectfully requested.

"REMARKS"

The Office Action contains a paragraph under the heading "REMARKS." The remarks

indicate that the term "range" in step S12 is not understood. Applicants respectfully submit that

the meaning of this term is clear to one of ordinary skill in the art who reads Applicants'

disclosure, which indicates that the dehydration speed input in step S11 can be in certain ranges,

one of which is from 400rpm to 800rpm (shown in Fig. 2, and discussed throughout the

specification, including the paragraph bridging pages 6 and 7) and the other of which is between

1000rpm and 1400rpm (shown in Fig. 2 and discussed throughout the specification, including the

first full paragraph on page 7). The user of the dryer selects a dehydration speed and inputs that

speed in step S12 – see pages 2 and 3 of the originally filed specification.

The same "remarks" paragraph also asserts that the relationship of the laundry amount

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determination to the flow chart of Fig. 2 is not understood, and asks "how is this amount

changing the dehydration speed?" In response to this, Applicants respectfully submit that the

flow chart of Fig. 2 begins with step S11 by inputting a user selected dehydration speed that is

based on a determination of laundry amount. As explained in the last full paragraph on page 6 of

the specification, a dehydration speed is automatically determined using a Hall-effect sensor and

set automatically. However, as explained in the next paragraph, that bridges pages 6 and 7 of the

specification, the set dehydration speed is input by a user. In this way, the user can actuate the

set dehydration speed, or enter a different dehydration speed and actuate that different

dehydration speed.

Hopefully, this explanation satisfactorily answers these remarks.

Rejection under 35 U.S.C. § 112, 2nd Paragraph

Claims 1, 8 and 16 stand rejected under 35 U.S.C. § 112, 2<sup>nd</sup> paragraph. This rejection is

respectfully traversed.

The test for compliance with the second paragraph of 35 U.S.C. § 112, as stated in Miles

Lab., Inc. v. Shandon, Inc., 997 F.2d 870, 875, 27 USPQ2d 1123, 1126 (Fed. Cir. 1993), cert.

denied, 510 U.S. 1100 (1994) is whether one skilled in the art would understand the bounds of

the claims when read in light of the specification. If the claims, read in light of the specification,

reasonably apprise those skilled in the art of the scope of the invention, Section 112 demands no

more. See also, In re Merat, 519 F.2d 1390, 1396, 186 USPQ 471, 476 (CCPA 1975), which

stated that the question under Section 112, second paragraph is whether the claim language,

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when read by a person of ordinary skill in the art in light of the specification, describes the

subject matter with sufficient precision that the bounds of the claimed subject matter are distinct.

See also, In re Warmerdam, 33 F3d 1354, 1361, 31 USPQ2d 1754, 1759 (Fed. Cir. 1994). The

second paragraph of 35 U.S.C. § 112 requires claims to be set out and circumscribe a particular

area with a reasonable degree of precision and particularity, In re Johnson, 558 F.2d 1008, 1015,

194 USPQ 187, 193 (CCPA 1977).

The Examiner indicates that the manipulative steps involved with "establishing a range of

the set dehydration drum rotation speeds" is not understood.

Applicants respectfully submit that the range of dehydration drum rotation speeds is

established as a result of steps S11 and S12 of Fig. 2, two specific ranges being illustrated in Fig.

2.

The Examiner also indicates that it "is unclear how a rotation speed of the rotor is

controlled for the amount of laundry". Applicants respectfully submit that this is not what is

actually claimed. Claim 1, for example, claims a combination of features, including "controlling

a rotation speed of the motor of the washing machine for the amount of laundry in the washing

machine by controlling the phase of the motor voltage phase control circuit in accordance with the

performance evaluating torque-speed curves." This positively claimed feature is disclosed, for

example, in the last sentence of the first full paragraph on page 6 of the specification, in a clear

manner.

The Examiner also states that it is unclear how the torque-speed curves are calculated on

the basis of the sensed amount of the laundry.

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In response to this question, Applicants respectfully submit that regardless of how these

curves were determined, their meaning is clear to one of ordinary skill in the art and the Office

Action fails to present and reason why their meaning is unclear to one of ordinary skill in the art.

Furthermore, Applicants respectfully submit that the torque-speed curves shown in Fig. 4 were

obtained empirically. Moreover, claim 1 has been amended to recite "determining" performance

evaluating motor torque-speed curves.

Thus, Applicants respectfully submit that claims 1, 8 and 16 fully comply with 35 U.S.C.

§ 112, second paragraph, as they stand and because one of ordinary skill in the art can readily

determine the metes and bounds of the invention.

Reconsideration and withdrawal of this objection is respectfully requested.

Rejection under 35 U.S.C. § 112, First Paragraph

Claims 1, 3-5, 8 and 16-20 stand rejected under 35 U.S.C. § 112, first paragraph, for

failing to comply with the written description requirement. This rejection is respectfully

traversed.

A complete discussion of the Examiner's rejection is set forth in the Office Action, and is

not being repeated here.

It is well settled that ipsis verbis disclosure is not necessary to satisfy the written

description requirement of section 112. Instead, the disclosure need only reasonably convey to

persons skilled in the art that the inventor had possession of the subject matter in question. <u>In re</u>

Edwards, 568 F.2d 1349, 1351-52, 196 USPQ 465, 467 (CCPA 1978); and Fujikawa v.

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Wattanasen, 39 USPQ2d 1895 (Fed. Cir. 1996).

The Examiner's assertions will be dealt with in the order they are presented.

With respect to the language "calculating performance evaluating motor-torque speed

curves for multiple dehydration speeds in the established range," this language is supported in (1)

the descriptions of Fig. 4 found on page 5, (2) the paragraph bridging pages 7 and 8, (3) the last

full paragraph on page 8, and (4) the paragraph bridging pages 8 and 9. Moreover, the

"calculating" language has been replaced by - - determining - -, which is broader in scope than

"calculating" and can read on a variety of empirical methods known to one of ordinary skill in

the art for determining the curves shown in Fig. 4.

With respect to the language "controlling a rotation speed of the motor of the washing

machine for the amount of laundry in the washing machine by controlling the phase of the motor

voltage phase control circuit in accordance with the performance evaluating torque-speed

curves," this language is supported in the portion of the specification beginning on line 24 of

page 7 and continuing to page 9, line 9, and Fig. 4.

With respect to the language "at least one dehydration speed," this language has been

removed from the claims.

With respect to the language "the performance evaluating motor-torque speed curves are

calculated in the basis of the sensed amount of laundry in the washing machine, is supported by

(1) the paragraph starting page 4, line 12, which discloses "setting the dehydration speed on the

basis of an amount of laundry out into the washing machine; and controlling a rotation speed of a

motor of the washing machine on the basis of the set dehydration speed;" and (2) the brief

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description of Fig. 4 found in lines 12-14 of page 5; (3) the specification beginning on line 24 of page 7 and continuing to page 9, line 9, and Fig. 4.

The language "the motor voltage phase control has fire angles and the step of controlling the motor voltage phase control circuit in accordance with the performance evaluating torque-speed curves is supported, with respect to the "fire angle" feature, on page 8, lines11-13, and in originally filed claims 13 and 16, which are part of the originally filed specification and, with respect to the rest of the language, is supported by the brief description of Fig. 4 found in lines 12-14 of page 5; and the specification beginning on line 24 of page 7 and continuing to page 9, line 9, and Fig. 4.

The "each dehydration speed range includes three drum speeds" language, found in claims 17-19 is supported by Fig. 2, where each range includes separate upper and lower specific speeds, and an intermediate range of speeds therebetween. In this regard, Applicants respectfully submit that the original drawings are part of Applicant's original disclosure and can be used to provide support for claim language. Shaffer Tool Works, et al. v. Joy Manufacturing Co., 193 USPQ 115 (DC S Tex 1976). Support for this language is also found in the portions of the specification that describe Fig. 2.

With respect to the statement in the outstanding Office Action that how efficiency is related to Fig. 4 and how performance satisfaction is evaluated is unclear, Applicants respectfully submit that this issue has nothing to do with whether the claims lack written description and to the extent that this issue is set forth in a lack of written description requirement, the rejection is improper and should be withdrawn.

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Nevertheless, in the interest of being fully responsive, Applicants respectfully submit that Fig. 4 is used with respect to calculating load torque applied to the drum, as explained in the detailed description of Fig. 4, for example, on pages 6-9 of the specification. Motor efficiency is determined using conventional techniques. Performance evaluation is done, as explained on page 9, lines 10-16, in terms of values calculated in the steps for calculating the properties of the motor, which are clearly set forth, for example, in Fig. 2 as being dehydration RPM, Motor performance, which includes torque and efficiency.

Further, in this regard, Applicants respectfully submit that the burden of establishing lack or written description, or lack of enablement (to which this last statement that it is not understood how performance satisfaction is evaluated, may pertain) is on the Office and the Office has not made out a *prima facie* case of either lack of written description or of lack of enablement of the claimed invention. An analysis of whether the claims under appeal are supported by an enabling disclosure requires a determination of whether that disclosure contained sufficient information regarding the subject matter of the appealed claims so as to enable one skilled in the pertinent art to make and use the claimed invention. The test for enablement is whether one skilled in the art could make and use the claimed invention from the disclosure coupled with information known in the art without undue experimentation. See, <u>United States v. Telectronics, Inc.</u>, 857 F.2d 778, 785, 8 USPQ2d 1217, 1223 (Fed, Cir, 1988), <u>cert. denied</u>, 109 S.Ct. 19 54 (1989); <u>In reStephens</u>, 529 F.2d 1343, 1345, 188 USPQ 659, 661 (CCPA 1976). As framed by our reviewing court, the dispositive issue with regard to the first paragraph rejection is whether the disclosure is sufficient to enable one of ordinary skill in the art to practice the claimed invention. See,

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Lindemann Machinenfabrik GMBH v. American Hoist & Derrick Co., 730 F.2d 1452, 1463, 221

USPQ 481, 489 (Fed. Cir. 1984).

In order to make a rejection, the Examiner has the initial burden to establish a reasonable

basis to question the enablement provided for the claimed invention. See, In re Wright, 999 F.2d

1557, 1561-2, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993) (Examiner must provide a reasonable

explanation as to why the scope of protection provided by a claim is not adequately enabled by

the disclosure). A disclosure which contains a teaching of the manner and process of making and

using an invention in terms which correspond in scope to those used in describing and defining

the subject matter sought to be patented must be taken as being in compliance with the

enablement requirement of 35 USC 112, first paragraph, unless there is a reason for doubting the

objective truths of the statements contained in the disclosure which must be relied on for

enabling support. Assuming that sufficient reason for such doubt exists, a rejection for failure to

teach how to make or use will be proper on that basis. See, In re Marzocchi, 439 F.2d 220, 223,

169 USPQ 367, 369 (CCPA 1971).

Once the Examiner has established a reasonable basis to question the enablement

provided for the claimed invention, the burden falls on the Applicant to present persuasive

arguments, supported by suitable proofs where necessary, that one skilled in the art would be able

to make and use the claimed invention using the disclosure as a guide. See, In re Brandstadter,

484 F.2d 1395, 1406, 179 USPQ 286, 294 (CCPA 1973). In making the determination of

enablement, the Examiner shall consider the original disclosure and all evidence in the record,

weighing evidence that supports enablement [the appellant may attempt to overcome the

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Examiner's doubt about enablement by pointing to details in the disclosure but may not add new

matter. The appellant may also submit factual affidavits under 37 CFR 1.132 or cite references

to show what one skilled in the art knew at the time of filing the application against evidence that

the specification is not enabling.

Thus, the dispositive issue is whether the Applicants' disclosure, considering the level of

skill in the art as of the date of the appellant's application, would have enabled a person of such

skill to make and use the claimed invention without undue experimentation. The threshold step

in resolving this issue is to determine whether the Examiner has met his burden of proof by

advancing acceptable reasoning inconsistent with enablement.

Factors to be considered by an Examiner in determining whether a disclosure would

require undue experimentation include (1) the quantity of experimentation necessary, (2) the

amount of guidance or direction presented, (3) the presence or absence of working examples, (4)

the nature of the invention, (5) the state of the prior art, (6) the relative skill of those in the art,

(7) the predictability or unpredictability of the art, and (8) the breadth of the claims. See, <u>In re</u>

Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988), citing Ex parte Formal, 230

USPQ 546, 547 (Bd. Pat, App. & Int. 1986).

The outstanding Office Action fails to meet the Office's burden of proof by advancing

acceptable reasoning that Applicants' disclosure is inconsistent with proper enablement.

Accordingly, the Office Action does not make out a prima facie case of lack of written

description of the claimed invention.

Reconsideration and withdrawal of this rejection are respectfully requested.

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New Claims 21-36

Claims 21-36 are added. Support for these claims is found throughout Applicants'

originally filed disclosure. Applicants respectfully submit that claims 21-36 recite a combination

of features, including establishing first and second distinct ranges of drum dehydration speeds

which differ from one another, that is neither disclosed nor suggested by the applied art.

<u>Conclusion</u>

All of the stated grounds of objection and rejection have been properly traversed,

accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner

reconsider all presently outstanding rejections and that they be withdrawn. It is believed that a

full and complete response has been made to the outstanding Office Action, and as such, the

present application is in condition for allowance.

If the Examiner believes, for any reason, that personal communication will expedite

prosecution of this application, the Examiner is invited to telephone Robert J. Webster,

Registration No. 46, 472, at (703) 205-8000, in the Washington, D.C. area.

Prompt and favorable consideration of this Amendment is respectfully requested.

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If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Date: February 11, 2008

Respectfully submitted,

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